

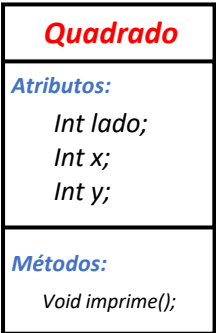
# Exercício 4 de introdução à orientação a objetos – Lista 01

Andrew Gabriel Gomes – Programação I

4) Dado o código da classe abaixo:

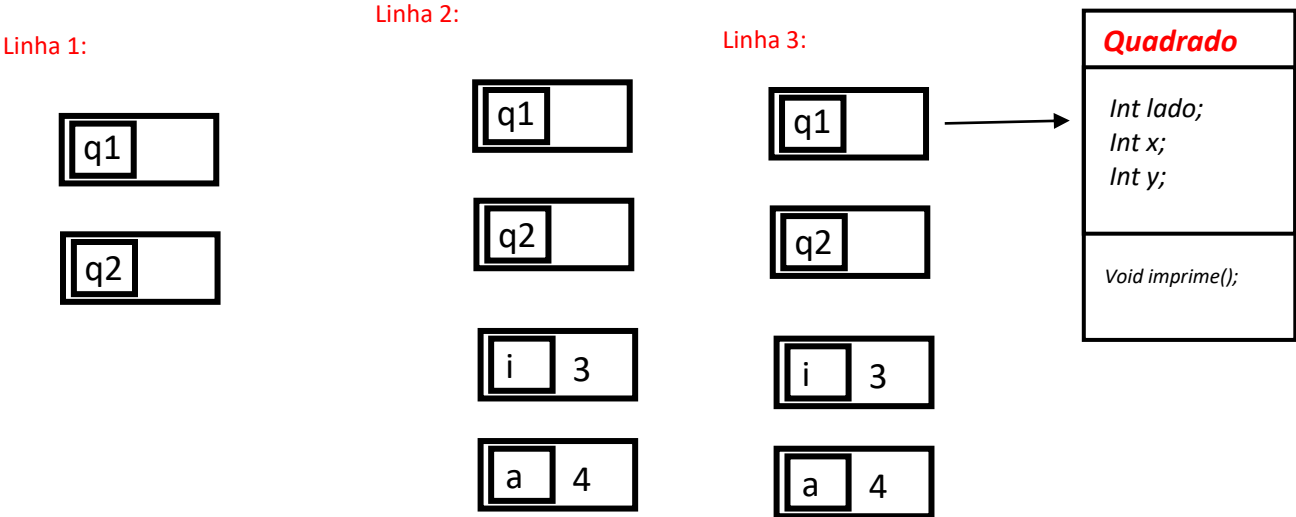
```
class Quadrado {
    int lado;
    int x;
    int y;

    void imprime() {
        System.out.println("x = " + x);
        System.out.println("y = " + y);
    }
}
```

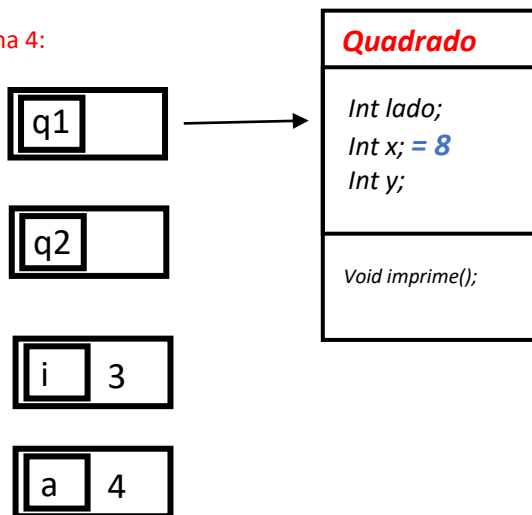


a) Informe o que o programa abaixo imprimirá na tela, mostrando a representação de memória que o programa terá ao final da execução da main.

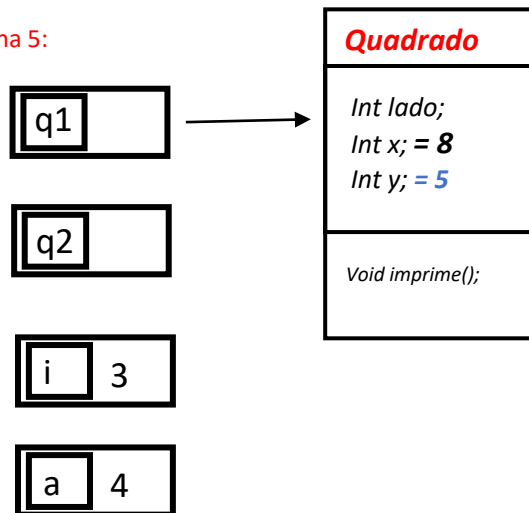
```
class Main {
    public static void main(String[] args) {
        1 Quadrado q1, q2;
        2 int i = 3, a = 4;
        3 q1 = new Quadrado();
        4 q1.x = 8;
        5 q1.y = 5;
        6 q2 = q1;
        7 a = i;
        8 q1.lado = 10;
        9 q2.x = 2;
        10 q2.y = 3;
        11 q2.imprime();
        12 q1.imprime();
    }
}
```



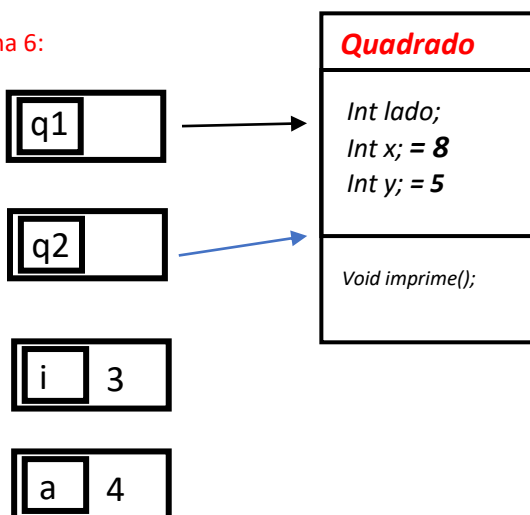
Linha 4:



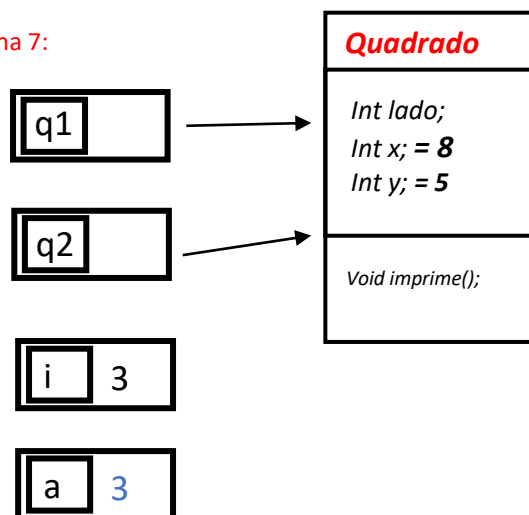
Linha 5:



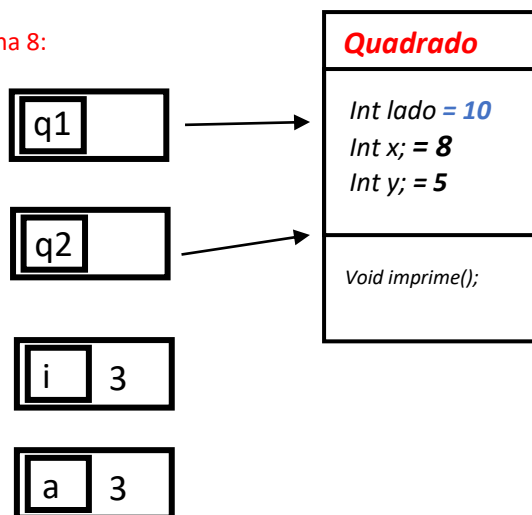
Linha 6:



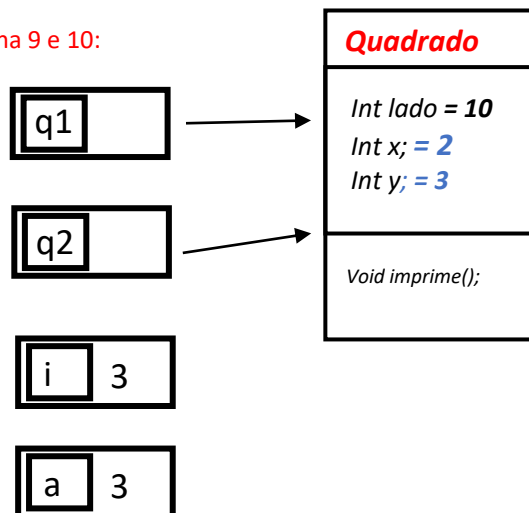
Linha 7:



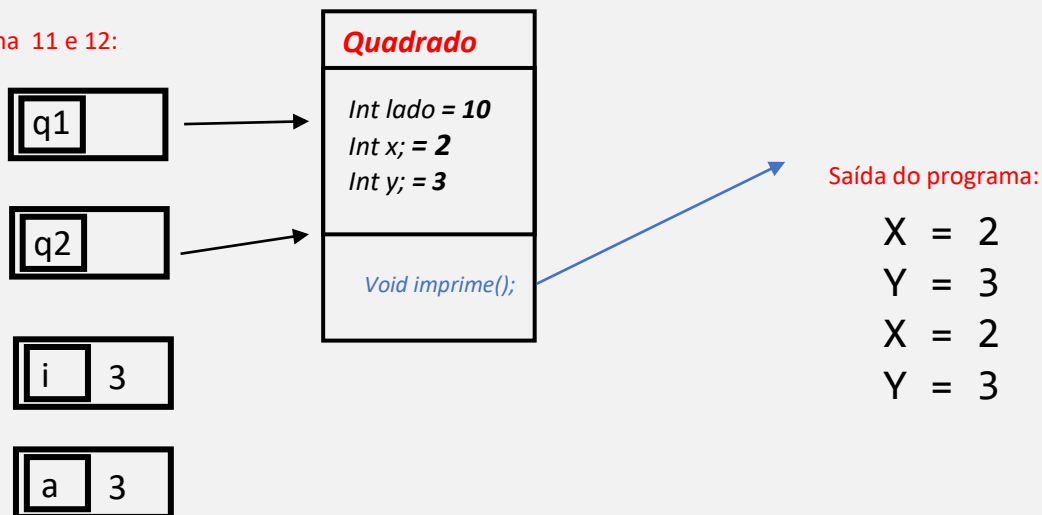
Linha 8:



Linha 9 e 10:



Linha 11 e 12:

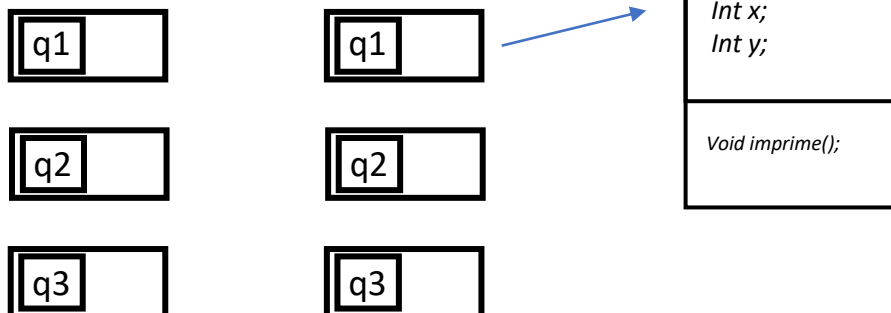


b) Informe o que o programa abaixo imprimirá na tela, mostrando a representação de memória que o programa terá ao final da execução da main.

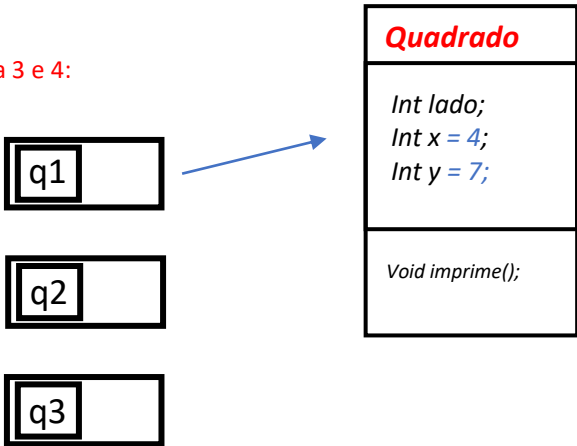
```
class Main {  
    public static void main(String[] args) {  
        1 Quadrado q1, q2, q3;  
        2 q1 = new Quadrado();  
        3 q1.x = 4;  
        4 q1.y = 7;  
        5 q2 = q1;  
        6 q3 = q2;  
        7 q1.imprime();  
        8 q2.imprime();  
        9 q1.lado = 10;  
        10 q3.x = 2;  
        11 q3.y = 3;  
        12 q3.imprime();  
    }  
}
```

Linha 1:

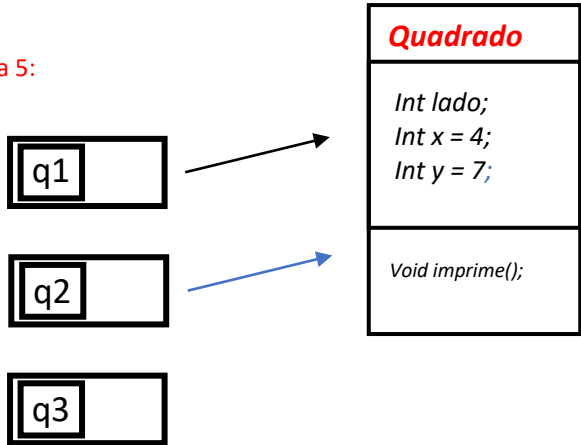
Linha 2:



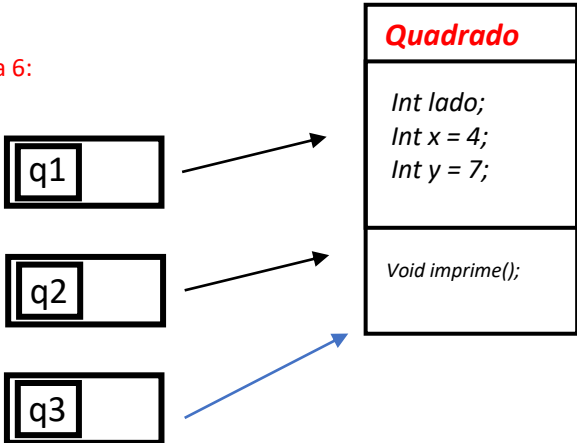
Linha 3 e 4:



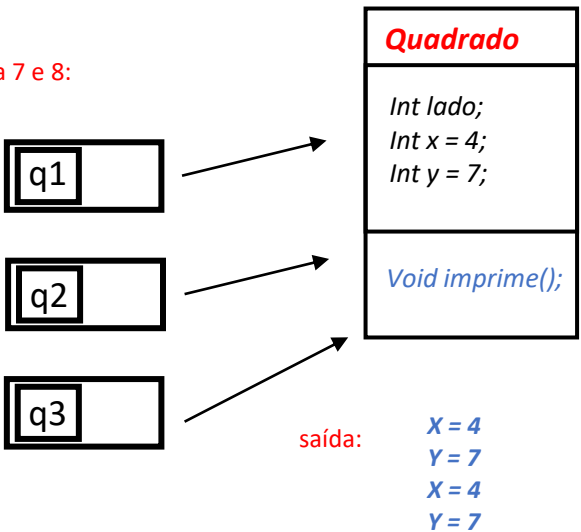
Linha 5:



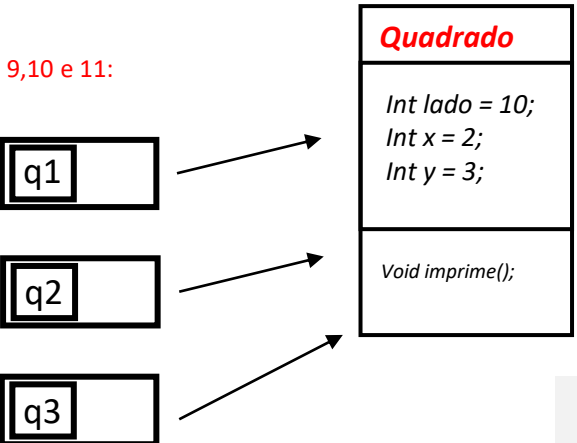
Linha 6:



Linha 7 e 8:



Linha 9,10 e 11:



Linha 12:

